STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/577, 893_

Source: _IFWP_

Date Processed by STIC: _05/11/2006_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
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1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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   U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

RAW SEQUENCE LISTING   DATE: 05/11/2006
PATENT APPLICATION: **US/10/577,893**   TIME: 11:07:16

Input Set : **A:\21564Y SEQ 05 01 06.TXT**
Output Set: **N:\CRF4\05112006\J577893.raw**

```
  4 <110> APPLICANT: Merck & Co., Inc.
  5        Istituto di Ricerche di Biologia Molecolare P. Angeletti S.p.A.
  7 <120> TITLE OF INVENTION: HCV REPLICONS CONTAINING NS5B FROM
  8        GENOTYPE 2B
 10 <130> FILE REFERENCE: 21564Y PCT
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/577,893
C--> 12 <141> CURRENT FILING DATE: 2006-05-01
 12 <150> PRIOR APPLICATION NUMBER: 60/517,605
 13 <151> PRIOR FILING DATE: 2003-11-05
 15 <160> NUMBER OF SEQ ID NOS: 28
 17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 591
 21 <212> TYPE: PRT
 22 <213> ORGANISM: Artificial Sequence
 24 <220> FEATURE:
 25 <223> OTHER INFORMATION: modified NS5B
W--> 27 <221> NAME/KEY: VARIANT
 28 <222> LOCATION: (5)...(5)
 29 <223> OTHER INFORMATION: Xaa = threonine or serine
W--> 31 <221> VARIANT
 32 <222> LOCATION: (24)...(24)
 33 <223> OTHER INFORMATION: Xaa = asparagine or serine
W--> 35 <221> VARIANT
 36 <222> LOCATION: (31)...(31)
 37 <223> OTHER INFORMATION: Xaa = methionine or isoleucine
W--> 39 <221> VARIANT
 40 <222> LOCATION: (376)...(376)
 41 <223> OTHER INFORMATION: Xaa = isoleucine or leucine
W--> 43 <400> 1
W--> 44 Ser Met Ser Tyr Xaa Trp Thr Gly Ala Leu Ile Thr Pro Cys Gly Pro
 45   1           5                   10              15
W--> 46 Glu Glu Glu Lys Leu Pro Ile Xaa Pro Leu Ser Asn Ser Leu Xaa Arg
 47              20              25              30
 48 Phe His Asn Lys Val Tyr Ser Thr Thr Ser Arg Ser Ala Ser Leu Arg
 49          35              40              45
 50 Ala Lys Lys Val Thr Phe Asp Arg Val Gln Val Leu Asp Ala His Tyr
 51      50              55              60
 52 Asp Ser Val Leu Gln Asp Val Lys Arg Ala Ala Ser Lys Val Ser Ala
 53 65              70              75              80
 54 Arg Leu Leu Thr Val Glu Glu Ala Cys Ala Leu Thr Pro Pro His Ser
 55              85              90              95
 56 Ala Lys Ser Arg Tyr Gly Phe Gly Ala Lys Glu Val Arg Ser Leu Ser
```

Handwritten annotations:
Does Not Comply
Corrected Diskette Needed
(pg 1,2,6,7)

→ at this location 'Ser'
→ at this location 392

```
 57              100                105                110
 58 Arg Arg Ala Val Asn His Ile Arg Ser Val Trp Glu Asp Leu Leu Glu
 59          115                120                125
 60 Asp Gln His Thr Pro Ile Asp Thr Thr Ile Met Ala Lys Asn Glu Val
 61      130                135                140
 62 Phe Cys Ile Asp Pro Thr Lys Gly Gly Lys Lys Pro Ala Arg Leu Ile
 63 145                150                155                160
 64 Val Tyr Pro Asp Leu Gly Val Arg Val Cys Glu Lys Met Ala Leu Tyr
 65              165                170                175
 66 Asp Ile Ala Gln Lys Leu Pro Lys Ala Ile Met Gly Pro Ser Tyr Gly
 67              180                185                190
 68 Phe Gln Tyr Ser Pro Ala Glu Arg Val Asp Phe Leu Leu Lys Ala Trp
 69          195                200                205
 70 Gly Ser Lys Lys Asp Pro Met Gly Phe Ser Tyr Asp Thr Arg Cys Phe
 71      210                215                220
 72 Asp Ser Thr Val Thr Glu Arg Asp Ile Arg Thr Glu Glu Ser Ile Tyr
 73 225                230                235                240
 74 Gln Ala Cys Ser Leu Pro Gln Glu Ala Arg Thr Val Ile His Ser Leu
 75          245                250                255
 76 Thr Glu Arg Leu Tyr Val Gly Gly Pro Met Thr Asn Ser Lys Gly Gln
 77          260                265                270
 78 Ser Cys Gly Tyr Arg Arg Cys Arg Ala Ser Gly Val Phe Thr Thr Ser
 79          275                280                285
 80 Met Gly Asn Thr Met Thr Cys Tyr Ile Lys Ala Leu Ala Ala Cys Lys
 81      290                295                300
 82 Ala Ala Gly Ile Val Asp Pro Val Met Leu Val Cys Gly Asp Asp Leu
 83 305                310                315                320
 84 Val Val Ile Ser Glu Ser Gln Gly Asn Glu Glu Asp Glu Arg Asn Leu
 85          325                330                335
 86 Arg Ala Phe Thr Glu Ala Met Thr Arg Tyr Ser Ala Pro Pro Gly Asp
 87          340                345                350
 88 Leu Pro Arg Pro Glu Tyr Asp Leu Glu Leu Ile Thr Ser Cys Ser Ser
 89      355                360                365
 90 Asn Val Ser Val Ala Leu Asp Ser Arg Gly Arg Arg Arg Tyr Phe Leu
 91      370                375                380
 W--> 92 Thr Arg Asp Pro Thr Thr Pro Xaa Thr Arg Ala Ala Trp Glu Thr Val
 93 385                390                395                400
 94 Arg His Ser Pro Val Asn Ser Trp Leu Gly Asn Ile Ile Gln Tyr Ala
 95          405                410                415
 96 Pro Thr Ile Trp Val Arg Met Val Ile Met Thr His Phe Phe Ser Ile
 97          420                425                430
 98 Leu Leu Ala Gln Asp Thr Leu Asn Gln Asn Leu Asn Phe Glu Met Tyr
 99          435                440                445
100 Gly Ala Val Tyr Ser Val Asn Pro Leu Asp Leu Pro Ala Ile Ile Glu
101      450                455                460
102 Arg Leu His Gly Leu Glu Ala Phe Ser Leu His Thr Tyr Ser Pro His
103 465                470                475                480
104 Glu Leu Ser Arg Val Ala Ala Thr Leu Arg Lys Leu Gly Ala Pro Pro
105      485                490                495
```

```
106 Leu Arg Ala Trp Lys Ser Arg Ala Arg Ala Val Arg Ala Ser Leu Ile
107         500             505             510
108 Ala Gln Gly Ala Arg Ala Ala Ile Cys Gly Arg Tyr Leu Phe Asn Trp
109         515             520             525
110 Ala Val Lys Thr Lys Leu Lys Leu Thr Pro Leu Pro Glu Ala Ser Arg
111     530             535             540
112 Leu Asp Leu Ser Gly Trp Phe Thr Val Gly Ala Gly Gly Gly Asp Ile
113 545             550             555             560
114 Tyr His Ser Val Ser His Ala Arg Pro Arg Leu Leu Leu Leu Cys Leu
115         565             570             575
116 Leu Leu Leu Ser Val Gly Val Gly Ile Phe Leu Leu Pro Asp Arg
117         580             585             590
120 <210> SEQ ID NO: 2
121 <211> LENGTH: 1776
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: modified NS5B
```

W--> 128 **<221> NAME/KEY: variation**
```
      129 <222> LOCATION: (3)...(3)
      130 <223> OTHER INFORMATION: n = A or T
```
W--> 132 **<221> variation**
```
      133 <222> LOCATION: (9)...(9)
      134 <223> OTHER INFORMATION: n = C or A
```
W--> 136 **<221> variation**
```
      137 <222> LOCATION: (13)...(13)
      138 <223> OTHER INFORMATION: n = A or T
```
W--> 140 **<221> variation**
```
      141 <222> LOCATION: (15)...(15)
      142 <223> OTHER INFORMATION: n = A or C
```
W--> 144 **<221> variation**
```
      145 <222> LOCATION: (21)...(21)
      146 <223> OTHER INFORMATION: n - A or G
```
W--> 148 **<221> variation**
```
      149 <222> LOCATION: (24)...(24)
      150 <223> OTHER INFORMATION: n = C or G
```
W--> 152 **<221> variation**
```
      153 <222> LOCATION: (28)...(28)
      154 <223> OTHER INFORMATION: n = T or C
```
W--> 156 **<221> modified_base**
```
      157 <222> LOCATION: (30)...(30)
      158 <223> OTHER INFORMATION: n = G or C
```
W--> 160 **<221> variation**
```
      161 <222> LOCATION: (33)...(33)
      162 <223> OTHER INFORMATION: n = C or A
```
W--> 164 **<221> variation**
```
      165 <222> LOCATION: (71)...(71)
      166 <223> OTHER INFORMATION: n = A or G
```
W--> 168 **<221> variation**

RAW SEQUENCE LISTING   DATE: 05/11/2006
PATENT APPLICATION: **US/10/577,893**   TIME: 11:07:16

Input Set : **A:\21564Y SEQ 05 01 06.TXT**
Output Set: **N:\CRF4\05112006\J577893.raw**

```
         169 <222> LOCATION: (83)...(83)
         170 <223> OTHER INFORMATION: n = G or T
W--> 172 <221> variation
         173 <222> LOCATION: (1174)...(1174)
         174 <223> OTHER INFORMATION: n = A or C
W--> 176 <400> 2
W--> 177 tcnatgtcnt acncntggac nggngccntn atnacaccat gtgggcccga agaggagaag 60
W--> 178 ttaccgatca nccctctgag taattcgctc atncggttcc ataataaggt gtactccaca 120
         179 acctcgagga gtgcctctct gagggcaaag aaggtgactt ttgacagggt gcaggtgctg 180
         180 gacgcacact atgactcagt cttgcaggac gttaagcggg ccgcctctaa ggttagtgcg 240
         181 aggctcctca cggtagagga agcctgcgcg ctgaccccgc cccactccgc caaatcgcga 300
         182 tacggatttg gggcaaaaga ggtgcgcagc ttatctagga gggccgttaa ccacatccgg 360
         183 tccgtgtggg aggacctcct ggaagaccaa cataccccaa ttgacacaac tatcatggct 420
         184 aaaaatgagg tgttctgcat tgatccaact aaaggtggga aaaagccagc tcgcctcatc 480
         185 gtataccccg accttggggt cagggtgtgc gaaaagatgg ccctctatga catcgcacaa 540
         186 aagcttccca aagcgataat ggggccatcc tatgggttcc aatactctcc cgcagaacgg 600
         187 gtcgatttcc tcctcaaagc ttggggaagt aagaaggacc caatggggtt ctcgtatgac 660
         188 acccgctgct ttgactcaac cgtcacggag agggacataa gaacagaaga atccatatat 720
         189 caggcttgtt ctctgcctca agaagccaga actgtcatac actcgctcac tgagagactt 780
         190 tacgtaggag ggcccatgac aaacagcaaa gggcaatcct gcggctacag gcgttgccgc 840
         191 gcaagcggtg ttttcaccac cagcatgggg aataccatga catgttacat caaagccctt 900
         192 gcagcgtgta aggctgcagg gatcgtggac cctgttatgt tggtgtgtgg agacgacctg 960
         193 gtcgtcatct cagagagcca aggtaacgag gaggacgagc gaaacctgag agctttcacg 1020
         194 gaggctatga ccaggtattc cgcccctccc ggtgaccttc ccagaccgga atatgacttg 1080
         195 gagcttataa catcctgctc ctcaaacgta tcggtagcgc tggactctcg gggtcgccgc 1140
W--> 196 cggtacttcc taaccagaga ccctaccact ccantcaccc gagctgcttg ggaaacagta 1200
         197 agacactccc ctgtcaattc ttggctgggc aacatcatcc agtacgcccc cacaatctgg 1260
         198 gtccggatgg tcataatgac tcacttcttc tccatactat tggcccagga cactctgaac 1320
         199 caaaatctca attttgagat gtacggggca gtatactcgg tcaatccatt agacctaccg 1380
         200 gccataattg aaaggctaca tgggcttgaa gccttttcac tgcacacata ctctcccccac 1440
         201 gaactctcac gggtggcagc aactctcaga aaacttggag cgcctcccct tagagcgtgg 1500
         202 aagagtcggg cgcgtgccgt gagagcttca ctcatcgccc aaggagcgag ggcggccatt 1560
         203 tgtggccgct acctcttcaa ctgggcggtg aaaacaaagc tcaaactcac tccattgccc 1620
         204 gaggcgagcc gcctggattt atccgggtgg ttcaccgtgg gcgccggcgg gggcgacatt 1680
         205 tatcacagcg tgtcgcatgc ccgacccgc ctattactcc tttgcctact cctacttagc 1740
         206 gtaggagtag gcatcttttt actccccgat cgatga                          1776
         208 <210> SEQ ID NO: 3
         209 <211> LENGTH: 1394
         210 <212> TYPE: PRT
         211 <213> ORGANISM: Artificial Sequence
         213 <220> FEATURE:
         214 <223> OTHER INFORMATION: modified NS3-5A
W--> 216 <221> NAME/KEY: VARIANT
         217 <222> LOCATION: (1215)...(1215)
         218 <223> OTHER INFORMATION: Xaa = asparagine or serine
W--> 220 <221> VARIANT
         221 <222> LOCATION: (904)...(904)
         222 <223> OTHER INFORMATION: Xaa = valine or alanine
W--> 224 <400> 3
```

```
225 Met Ala Pro Ile Thr Ala Tyr Ser Gln Gln Thr Arg Gly Leu Leu Gly
226 1               5                   10              15
227 Cys Ile Ile Thr Ser Leu Thr Gly Arg Asp Lys Asn Gln Val Glu Gly
228             20                  25              30
229 Glu Val Gln Val Val Ser Thr Ala Thr Gln Ser Phe Leu Ala Thr Cys
230         35                  40              45
231 Val Asn Gly Val Cys Trp Thr Val Tyr His Gly Ala Gly Ser Lys Thr
232     50                  55              60
233 Leu Ala Gly Pro Lys Gly Pro Ile Thr Gln Met Tyr Thr Asn Val Asp
234 65              70                  75                      80
235 Gln Asp Leu Val Gly Trp Gln Ala Pro Pro Gly Ala Arg Ser Leu Thr
236             85                  90                  95
237 Pro Cys Thr Cys Gly Ser Ser Asp Leu Tyr Leu Val Thr Arg His Ala
238             100                 105                 110
239 Asp Val Ile Pro Val Arg Arg Arg Gly Asp Ser Arg Gly Ser Leu Leu
240         115                 120                 125
241 Ser Pro Arg Pro Val Ser Tyr Leu Lys Gly Ser Ser Gly Gly Pro Leu
242     130                 135                 140
243 Leu Cys Pro Ser Gly His Ala Val Gly Ile Phe Arg Ala Ala Val Cys
244 145                 150                 155                 160
245 Thr Arg Gly Val Ala Lys Ala Val Asp Phe Val Pro Val Glu Ser Met
246             165                 170                 175
247 Glu Thr Thr Met Arg Ser Pro Val Phe Thr Asp Asn Ser Ser Pro Pro
248             180                 185                 190
249 Ala Val Pro Gln Thr Phe Gln Val Ala His Leu His Ala Pro Thr Gly
250         195                 200                 205
251 Ser Gly Lys Ser Thr Lys Val Pro Ala Ala Tyr Ala Ala Gln Gly Tyr
252     210                 215                 220
253 Lys Val Leu Val Leu Asn Pro Ser Val Ala Ala Thr Leu Gly Phe Gly
254 225                 230                 235                 240
255 Ala Tyr Met Ser Lys Ala His Gly Ile Asp Pro Asn Ile Arg Thr Gly
256             245                 250                 255
257 Val Arg Thr Ile Thr Thr Gly Ala Pro Val Thr Tyr Ser Thr Tyr Gly
258             260                 265                 270
259 Lys Phe Leu Ala Asp Gly Gly Cys Ser Gly Gly Ala Tyr Asp Ile Ile
260         275                 280                 285
261 Ile Cys Asp Glu Cys His Ser Thr Asp Ser Thr Thr Ile Leu Gly Ile
262     290                 295                 300
263 Gly Thr Val Leu Asp Gln Ala Glu Thr Ala Gly Ala Arg Leu Val Val
264 305                 310                 315                 320
265 Leu Ala Thr Ala Thr Pro Pro Gly Ser Val Thr Val Pro His Pro Asn
266             325                 330                 335
267 Ile Glu Glu Val Ala Leu Ser Asn Thr Gly Glu Ile Pro Phe Tyr Gly
268             340                 345                 350
269 Lys Ala Ile Pro Ile Glu Ala Ile Arg Gly Gly Arg His Leu Ile Phe
270         355                 360                 365
271 Cys His Ser Lys Lys Lys Cys Asp Glu Leu Ala Ala Lys Leu Ser Gly
272     370                 375                 380
273 Leu Gly Ile Asn Ala Val Ala Tyr Tyr Arg Gly Leu Asp Val Ser Val
```

```
<210> 24
<211> 19
<212> DNA
<213> Artifial Sequence

<400> 24
gtctaccgtg agcgaggaa
```

→ If <213> Responses are
Artificial or Unknown.
Pls Explain the Source
of genetic Material.
See Item 11 on Error
Summary Sheet.

```
<210> 27
<211> 783
<212> DNA
<213> modified NS4B

<400> 27
```

<213> Responses can only be Artificial, Unknown or Genus Species. See Item 10 on Error Summary Sheet.

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 05/11/2006
PATENT APPLICATION: US/10/577,893   TIME: 11:07:17

Input Set : A:\21564Y SEQ 05 01 06.TXT
Output Set: N:\CRF4\05112006\J577893.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 5,24,31,392
Seq#:2; N Pos. 3,9,13,15,21,24,28,30,33,71,93,1174
Seq#:3; Xaa Pos. 904,1215
Seq#:4; N Pos. 3644

Use of <220> Feature(NEW RULES):   𝒪𝒦
Sequence(s)__are missing the <220> Feature and associated headings.
Use of <220> to <223> is **MANDATORY** if <213> ORGANISM is "Artificial Sequence"
or"Unknown". Please explain source of genetic material in <220> to <223>
section (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32)
(Sec.1.823 of new Rules)

Seq#:1,2,3,4,24

VERIFICATION SUMMARY   DATE: 05/11/2006
PATENT APPLICATION: **US/10/577,893**   TIME: 11:07:17

Input Set : **A:\21564Y SEQ 05 01 06.TXT**
Output Set: **N:\CRF4\05112006\J577893.raw**

```
L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:27 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:31 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:35 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:39 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:43 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:16
L:92 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:384
L:128 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:132 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:136 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:140 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:144 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:148 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:152 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:156 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:160 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:164 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:168 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:172 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:176 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:60
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:1140
L:216 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:220 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:224 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:896
L:375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:1200
L:411 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:415 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:419 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:3600
L:703 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:24
L:705 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:24, <213>
ORGANISM:Artificial Sequence
L:705 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:24, <213>
ORGANISM:Artificial Sequence
L:705 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:24,Line#:705
```